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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/620,391	07/16/2003	Chris Vienneau	G&C 30566.291-US-01	9547
55895	7590 11/27/2006		EXAMINER	
GATES & COOPER LLP			TERMANINI, SAMIR	
	JGHES CENTER		ADTIBUT	PAPER NUMBER
6701 CENTER DRIVE WEST, SUITE 1050			ART UNIT	PAPER NUMBER
LOS ANGELI	ES CA 90045		2178	

DATE MAILED: 11/27/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary    Examiner					
Samir Termanini  The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication Failure to reply within the set or extended period for reply will, by statute, cause the application to become AB ANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).  Status  1) □ Responsive to communication(s) filed on 7/16/2003.  2a) □ This action is FINAL.  2b) □ This action is non-final.  3) □ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
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Disposition of Claims					
4)⊠ Claim(s) <u>1-18</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-18</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement.					
Application Papers					
9) The specification is objected to by the Examiner.					
10) ☑ The drawing(s) filed on 7/16/2003 is/are: a) ☑ accepted or b) ☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.	•				
Priority under 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> </ul>					
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s)					
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date 7/16/2003.  Paper No(s)/Mail Date Other:					

## **DETAILED ACTION**

- 1. This action is responsive to the following communications: Application filed on 7/16/2003; and IDS filed on 7/16/2003.
  - 2. Claims 1-18 are pending. Claims 1, 10, 13, and 15 are in independent form.
- 3. Receipt is acknowledged of papers submitted on 9/2/2004 under 35 U.S.C. § 119 (a)-(d), which papers have been placed of record in the file.

#### Specification

- 4. Applicant is reminded of the proper language and format for an abstract of the disclosure. The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details. The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.
- 5. The abstract of the disclosure is objected to because it contains legal phraseology. More specifically, the phrase "said" appears on lines 3, 5, 8, 10, and 11 of the abstract. Applicants assistance in the correction of the abstract is solicited. See MPEP § 608.01(b).

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### Claim Rejections - 35 U.S.C. § 102

- 6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. § 102 that form the basis for the rejections under this section made in this Office action:
  - (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 7. Claims 1-3 and 5-18 are rejected under 35 U.S.C. § 102(e) as being anticipated by *Kurtenbach*, US Pat. No. 6,618,063 (hereinafter "*Kurtenbach '063'*).

As to independent claim 1, *Kurtenbach '063* teaches an apparatus for processing image data ("production operations...such as CAD/CAM and animation...," col. 2, lines 58-60; see also "ALIAS V6," the image data processing program, col. 4, line 41), comprising processing means (i.e. "computer 20," col. 2, line 49), storage means (i.e. "storage media" col. 2, line 53), display means (i.e. "display 22," col. 2, line 47) and stylus-like manually operable input means (i.e. "pen," col. 2, line 64), wherein the processing means is configured to perform functions upon image data in response to an operator manually selecting a function from a function menu ("...selected by manipulating the pointing device 26...," col. 3, line 19); the processing means responds to a first user generated input command so as to display a plurality of function gates at a cursor position ("A user activates the selection indicator [where a] radial menu 40, such as illustrated in FIG. 3, then appears directly under the tip of the pen 52...," col. 3, lines 44-49); movement of the stylus-like manually operable input means so as to move the cursor ("A user then highlights an item by keeping the pen pressed and making a stroke 42 towards the desired item." col. 3, lines 49-51)

through one of the function gates results in a related menu being displayed ("...the submenu is displayed with the center 48 of the new menu under the pen 52," col., lines 60-63; see also FIG. 4) and manual selection of a function from the displayed menu results in the selected function ("The user then continues, from the new center 48, selecting the newly displayed sub-menu by providing another stroke 50 with the pen 52," col. 3, lines 63-66) being performed upon the image data (i.e. execute the command associated with series of menu choices, element 198, Fig. 11).

As to dependent claim 2, *Kurtenbach '063* further teaches the apparatus according to claim 1, wherein the manually operable input means is a stylus and a touch tablet combination ("The display 22 and pointing device 26 can also be combined into a single device, such as touch sensitive screen." col. 2, lines 66-67).

As to dependent claim 3, *Kurtenbach '063* further teaches the apparatus according to claim 1, wherein a first user-generated input command is generated in response to keyboard operation ("selection is made by depressing (or releasing) a button...in a separate interface device, such as the keyboard 24." col. 3, lines 19-23).

As to dependent claim 5, *Kurtenbach '063* further teaches the apparatus according to claim 1, wherein four function gates (*see* Fig. 3 - showing <u>four</u> function gates) form a substantially circular device ("Marking menus is a pop up menu technology that displays menu items in a circle, around the cursor...," col. 1, lines 39-40)(emphasis added).

As to dependent claim 6, Kurtenbach '063 further teaches the apparatus according to claim 1, wherein six function gates (see Fig. 4 - showing six function gates) form a substantially circular device ("...menu items in a circle, around the cursor...," col. 1, lines 39-40)(emphasis added).

As to dependent claim 7, Kurtenbach '063 further teaches the apparatus according to claim 1, wherein the function gates form a substantially quadrilateral device (see Fig. 3 showing a four-sided device also known as a 'cyclic quadrilateral').

As to dependent claims 8-9, Kurtenbach '063 further teaches the apparatus according to claim 1, wherein the menus relate to functions applicable to image data processing, compositing, and editing image frames ("production operations...such as CAD/CAM and animation...," col. 2, lines 58-60; see also "ALIAS V6," the image data processing program, col. 4, line 41).

As to independent claim 10, Kurtenbach '063' teaches a method of selecting a function ("menu selection operation," col. 3, line 43) via a graphical user interface for receiving input commands ("selected by manipulating the pointing device 26," col. 3, line 19), wherein in response to a first input command, a selection device is displayed at a cursor position ("A user activates the selection indicator [and then a] radial menu 40, such as illustrated in FIG. 3, then appears directly under the tip of the pen 52," col. 3, lines 44-49); the selection device identifies a plurality of function types ("particular item," col. 3, line 56) at selected positions ("selected regions 72," col. 5, line 43), each having an associated displayable menu ("submenu," col. 3, line 62); in response to a second input command (second "moving [of] the pointer," col. 3, lines 61-62), a cursor is moved over one of the positions ("...position the pointer directly over the label for the item to be selected." col. 6, lines 1-2); and having moved the cursor over a function type position the menu associated with the position over which the cursor has been moved is displayed ("submenu is displayed," col. 3, line 62).

As to dependent claim 11, *Kurtenbach '063* further teaches the method according to claim 10, wherein a first selection device or a second selection device is displayed dependent upon the current state of operations being performed by an operator (e.g. "contexts, such as tool pallet, pulldown menu and object hot spots," col. 8, lines 34-35).

As to dependent claim 12, *Kurtenbach '063* further teaches the method according to claim 11, wherein a related device is displayed when the operator is using a schematic view ("FIG. 6 shows a combined radial marker and linear menu," col. 2, lines 33-34) and a player-related device is displayed when an operator is viewing a player view (FIG. 5 depicts selection using a marking pattern without producing a display, col. 2, lines 31-32).

As to independent claim 13, Kurtenbach '063' teaches a method of supplying input data to a computer system, comprising the steps of issuing a first input command to call up a graphical user interface ("A user activates the selection indicator [and then a] radial menu 40, such as illustrated in FIG. 3, then appears directly under the tip of the pen 52," col. 3, lines 44-49) in which a plurality of gates surround a cursor position (e.g. see Fig. 4); and in response to a second input command ("another stroke 50," col. 3, lines 63-66), moving the cursor through one of the gates (pen 52 moves through the gate, Fig. 4); and supplying input data determined by which of the gates the cursor is moved through ("Lifting the pen 52," col. 3, line 66).

As to dependent claim 14, Kurtenbach '063 further teaches a method according to claim 13, wherein four gates are displayed in the graphical user interface in a substantially circular configuration (see Fig. 3).

As to independent claim 15, Kurtenbach '063 teaches a computer-readable medium having computer-readable instructions executable by a computer ("hard disk or a floppy

disk on which the process discussed herein is stored," col. 2, lines 52-54) such that, when executing the instructions, the computer will perform the steps of responding to a first user generated input command ("A user activates the selection indicator," col. 3, lines 44-49) so as to display a plurality of function gates at a cursor position ("[and then a] radial menu 40, such as illustrated in FIG. 3, then appears directly under the tip of the pen 52," col. 3, lines 44-49); responding to movement of manually operable input means so as to move the cursor through one of the function gates and displaying a menu in response to the cursor movement ("The user then continues, from the new center 48, selecting the newly displayed sub-menu by providing another stroke 50 with the pen 52," col. 3, lines 63-66); and responding to manual selection of a function from the displayed menu so as to perform the function ("Lifting the pen 52 will cause the current series of highlighted items to be selected." col. 3, lines 66-67) upon image data ("production operations....such as CAD/CAM and animation operations." col. 2, lines 58-60; see also "ALIAS V6" col. 4, line 41).

As to dependent claim 16, Kurtenbach '063 further teaches the computer-readable medium having computer-readable instructions according to claim 15, wherein the cursor moves thru one of the function gates (see cursor moving through the gate, Fig. 4) in response to manual operation of a stylus upon a touch-tablet ("The display 22 and pointing device 26 can also be combined into a single device, such as touch sensitive screen." col. 2, lines 66-67).

As to dependent claim 17, the only difference between claim 14 and this claim, is that the latter is directed toward a product, defined by the process of the former. Accordingly, this claim is being rejected for the same reasons set forth in the treatment of claim 14.

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As to dependent claim 18, *Kurtenbach '063* further teaches the computer-readable medium having computer-readable instructions according to claim 15, such that when executing the instructions a computer will display a menu at a screen position related to the relative positions of its respective gate ("location around the radial menu that is desired depending on where the radial menu actually pops up," col. 8, lines 15-16).

### Claim Rejections · 35 U.S.C. § 103

- 8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 9. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kurtenbach US Pat. No. 6,618,063 (hereinafter "Kurtenbach '063') in view of Kurtenbach et al., US Pat. No. 6,414,700; (hereinafter "Kurtenbach '700').

As to dependent claim 4, Kurtenbach '063 further teaches the apparatus according claim 3, wherein a first user-generated input command is generated in response to keyboard operation ("selection is made by depressing (or releasing) a button...in a separate interface device, such as the keyboard 24." col. 3, lines 19-23). Kurtenbach '063 does not show the keyboard operation to specifically involve the activation of a 'spacebar'. However, Kurtenbach '700 teaches a first user-generated input command is generated in response to keyboard operation ("To display the interface 10, the user holds down a key on the key board, preferably [w]hen the cursor is in a display window," col. 4, lines 1-4). It would have been obvious to one of ordinary skill in the art, at the time the invention was made, to have

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used the spacebar in Kurtenbach '700 with menu Kurtenbach '063 because both disclosures:

(1) are in the same field of endeavor of graphical user interfaces that present users with a large number of menu items (see Kurtenbach '700 at col. 1, lines 7-9; see Kurtenbach '063 at col. 1, lines 26-28); (2) are directed to the same problem of providing radial marking (or "pie") menus (see Kurtenbach '700 at col. 3, line 58; see Kurtenbach '063 at col. 1, line 11); (2) and (3) Kurtenbach '700 expressly suggests the desirability in using marking (or "pie") menus in that they provide "a method for creating a visually pleasing layout...," (col. 3, lines 38-40) and further, that they should be presented via a first user-generated input

command being "preferably the space-bar" (Kurtenbach '700 at col. 4, lines 1-4).

[This Office Action Continues onto the Next Page]

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#### Conclusion

10. Although not relied upon, the following prior art is made of record because it considered pertinent to applicant's disclosure:

- [1] Moran et al. (US Pat. No. 5,500,935 A) for teaching an apparatus and method for translating graphic objects and commands with direct touch input in a touch based input system.
- [2] Bier et al. (US Pat. No. 5,581,670 A) for teaching an user interface having movable sheet with click-through tools.
- [3] Kurtenbach (US Pat. No. 5,689,667 A) for teaching a method and system of controlling menus with radial and linear portions.
- [4] Atkinson (US Pat. No. 5,701,424 A) for teaching Palladian menus.
- [5] Blades (US Pat. No. 5,706,448 A) for teaching a method and system for efficiently managing a plurality of displayable objects within a display.
- [6] Smith (US Pat. No. 5,721,853 A) for teaching a spot interface comprises an active region represented by a small graphical display element having the appearance of a sphere.
- [7] Sullivan (US Pat. No. 5,737,557 A) for teaching a variety of operations that apply to the collective properties of the set of items as a whole through pie menus.
- [8] Vayda et al. (US Pat. No. 5,745,717 A) for teaching a graphical menu providing simultaneous multiple command selection.
- [9] Anderson et al. (US Pat. No. 5,828,360 A) for teaching an apparatus for handling objects such as documents and tools where a menu of options displayed, which options are placed in a curved band.
- [10] Sommers et al. (US Pat. No. 5,940,076 A) for teaching different options/features displayed in user selectable fields which are located along an arc.

[11] Perttunen (US Pat. No. 6,359,635 B1) for teaching multilayer Pie and Radial Menus.

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- [12] Baudel et al. (US Pat. No. 6,377,240 B1) for teaching radial control menus in graphic editing.
- [13] Selker (US Pre-grant Pub. 2002/0122072 A1) for teaching a pie menu GUI.
- [14] Leavitt et al. (US Pat. No. 6,918,091 B2) for teaching a pie menu having a user definable interface.
- [15] J. Callahan, D. Hopkins, M. Weiser, B. Shneiderman, "An empirical comparison of pie vs. linear menus" 1988, Proceedings of the SIGCHI conference on Human factors in computing systems.
- [16] Mark A. Tapia, Gordon Kurtenbach, "Some design refinements and principles on the appearance and behavior of marking menus" 1995, Proceedings of the 8th annual ACM symposium on User interface and software technology.
- [17] Gordon Kurtenbach, William Buxton, "The limits of expert performance using hierarchic marking menus" 1993, Proceedings of the SIGCHI conference on Human factors in computing systems.
- [18] Gordon Kurtenbach, William Buxton, "User learning and performance with marking menus" 1994, Proceedings of the SIGCHI conference on Human factors in computing systems celebrating interdependence.
- [19] IBM Technical Disclosure Bulletin, "Extended Pie Menu," Feb. 1994, IBM Corp., vol. 37, No. 02B, p. 397.
- 11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Samir Termanini whose telephone number is (571) 270-

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1047. The examiner can normally be reached from 9 A.M. to 4 P.M., Monday through

Friday (excluding alternating Fridays).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Stephen S. Hong can be reached on (571) 272-4124. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published

applications may be obtained from either Private PAIR or Public PAIR. Status information

for unpublished applications is available through Private PAIR only. For more information

about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on

access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-

217-9197 (toll-free). If you would like assistance from a USPTO Customer Service

Representative or access to the automated information system, call 800-786-9199 (IN USA

OR CANADA) or 571-272-1000.

STEPHEN HONG

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Damir Termanini

Samir Termanini Patent Examiner

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